

*ABSTRACT AMENDMENTS*

Replace the Abstract with:

~~A plurality of substantially~~ Substantially S-shaped optical waveguides are embedded in ~~the a~~ semiconductor substrate, and at least two optical waveguide returning parts are interposed between the input and output ends of the ~~bent~~ waveguides, ~~and each~~. Each of the optical waveguide returning parts includes a multiplexing portion. A reflecting part is ~~formed~~ located on a rear end side of the multiplexing portion of each optical waveguide returning part. Thus, the length between ~~the~~ input and output ends of the waveguides can be reduced, suppressing a bending loss, and achieving ~~to have~~ a high speed and a small size ~~of the~~ integrated optical device.